

[METHOD AND APPARATUS FOR STERILIZING AIR IN LARGE VOLUMES BY RADIATION OF ULTRAVIOLET RAYS]

Abstract

A sterilizing method and apparatus for destroying live microorganisms including viruses in fluent material, such as air and water, in large volume. As a preferred embodiment of this invention, air is drawn, from the inlet *1*, through the inlet filter unit *3* and into the circuitous sterilizing chamber *10* that is irradiated by numbers of UV lamp tubes *15*, and through the discharging filter unit *13* and then out through outlet *11*. A sample window *12* is built in for quality supervision. Visual inspection windows *5* and UV sensors *6* are provided for easy supervision and auto-control. The sterilizing chamber *10* also includes flow resistant reducing feature *7* and internal reflecting surfaces *9*.